



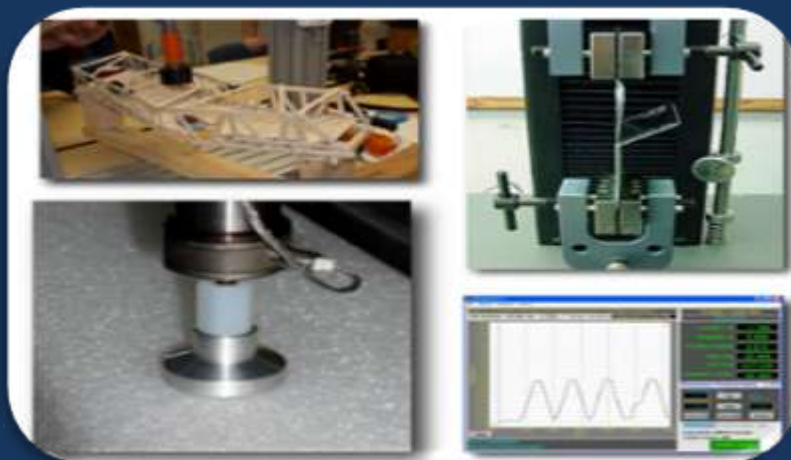
## About Us | TestResources

TestResources, Inc. is led by experienced engineers, focused on helping customers solve their mechanical testing problems for almost 20 years.

Our Customers value the delivery of the responsive, affordable, and effective solutions that overcome the challenges of their static and fatigue testing applications. As test engineers that develop and produce a wide range of test systems and accessories, we solve challenges ranging from highly technical down to the basics. **We know testing.**

## Testing Solutions with a Personal Touch

We know our customers by first name. Every call is directed to an experienced application engineer who has the technical expertise to craft a solution tailored to your unique application. Do not be surprised when we ask a lot of questions during our conversation. We want to make sure that you get the solution you need, not just the products we have in stock.



## 574LE2 Planar Biaxial Test Machine

The 574LE2 Series is a unique configurable electrodynamic test system featuring four independent modular dynamic servo actuators. Each actuator is driven by a flexible multiple channel test measurement controller. Powerful and configurable test software is included.

### Unique modular approach

E2 Electrodynamic actuators are modular and configurable with different force and stroke ratings. The standard configuration is capable of producing fatigue loads up to 550 lb (2500N). Load cells are selectable with load ratings as small as 50 grams (0.1 lb) full scale. In the case of the 50 gram cell, the system can control loads as small as 0.01 grams. Each actuator features a full stroke of 150 mm (6 inch) with stroke resolution of 0.1 micron.



### Unmatched test control

The system can be configured for a four channel planar biaxial single-station setup or optionally configured as four independent uniaxial test stations. The system can be user configured either way using the flexible four station controller. With our modular approach, the user can order a single station, single actuator and expand it to a four channel system as budgets permit.

## 530 Series Axial Torsion Electrodynamic Fatigue Test Machine

530 series Electrodynamic axial torsion test systems are used for axial, torsional and biaxial or combined mode static, fatigue and dynamic tests common to medical device, orthopedic research, and product testing applications. Electrodynamic axial torsion fatigue testers perform loading consisting of combined linear and rotary motion. They can be optionally configured with 2nd station hardware and the user can then reconfigure a single station machine into two independent stations - one torsional and the other axial. The controller performs static and dynamic mechanical tests, including material characterization and fatigue life testing.



These all electric test machines include actuators configured to force, speed and travel requirements, digital high resolution servo controller, and test control, measurement and analysis software. An axial torsion load cell ensures high accuracy measurement and control.

## Mechanical Wedge Grips

Mechanical wedge action grips are more popular than power assisted pneumatic or hydraulic grips because they are generally more compact, more affordable, and simpler to use. That said, power assist is very beneficial in higher force testing applications.

Mechanical wedge action grips feature either stationary grip bodies or stationary jaw inserts. Stationary grip bodies are coupled to the test machine and remain fixed. The jaws move during opening and closing and sample insertion. Wedge grips with stationary jaw inserts reduce or eliminate undesirable axial compressive loads that can cause sample damage as they are tightened. Stationary jaws clamp the sample without requiring axial movement. With some stationary jaw grips, handles turn a collar that moves the grip body. The jaw inserts couple directly to the test frame. Note that achieving the same goals is possible using adjustable jaws (fixed grip), with a more inconvenient sample loading procedure.

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